

and fine adjustments. This is shown in Fig. 2 and the letters refer to the following parts:

- A. The Limb.
- A1. The Limb continued downwards to carry Substage.
- B. The bolt hole for the inclining joint.
- C. Substage condenser carrier.
- D. The same fitting swung out of the optical axis.
- E. Fine adjustment milled head.
- F. Coarse adjustment milled head.
- G. Tail-piece carrying the mirror.

The matter is one which is of considerable interest to microscopists, especially those who are interested in high power work with the best means available, and it is an indication of the way in which the building of the most accurate of all instruments may be solidified and improved.

THE LEITZ DOUBLE DEMONSTRATION EYEPiece WITH POINTER

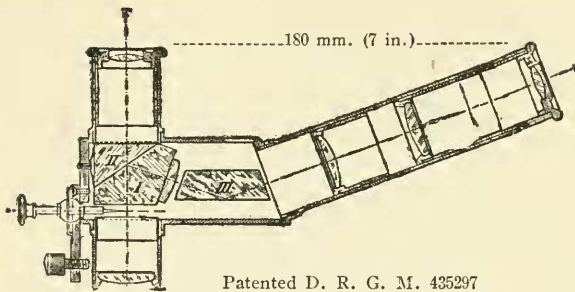
This eyepiece is an important addition to the many practical, auxiliary apparatus intended to *facilitate microscopical teaching, thus saving time.*

THIS DOUBLE DEMONSTRATION EYEPiece, with pointer, is an instrument the need of which was seriously felt for a long time. It has been constructed with a special view *to help the teacher in demonstrating a particular object in the visual field of a Microscope.*

It is used like any ordinary Eyepiece, by simply placing it into the draw tube of a Microscope. *It enables two observers to view, simultaneously, the image* which is produced and by means of the pointer they may *demonstrate mutually any part* of the image.

The pointer is universally adjustable by a ball joint and can be moved forward or backward, thus the whole field can be easily covered.

The construction of the Apparatus may be easily understood from the accompanying illustration:



Between the lenses of the vertical ocular, just above the eyepiece diaphragm, is placed the double prism I and II, through which the greater part of the light passes in a straight line. The remainder of the light being deflected on the long side of prism I into another prism, No. III in illustration, which again directs the path of rays into the auxiliary (side) eyepiece which is of terrestrial construction. This side eyepiece is of sufficient distance (7 inches) from the vertical one so that the two observers will not interfere with each other.

The focusing is chiefly done by the person observing through the vertical ocular, it being more convenient; at the same time the focusing of the image is performed, automatically, in the side eyepiece.

The eyepieces have, in both tubes, an initial magnification of approximately $3\frac{1}{2} \times$. *Both images are sharply defined, colorless and free from distortion.* The student will use the vertical eyepiece, this giving him the proper position in viewing a Microscopical image, while the demonstrator, being familiar with the object under observation, will use the auxiliary (side) eyepiece.

This new LEITZ DOUBLE DEMONSTRATION EYEPIECE with pointer will be of immense help to the teacher as well as to the student. A trial will easily confirm this, and every institution sooner or later will have one or more of these practical auxiliary apparatus.